



PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PL2 02018PCT		Notification of Transmittal of International minary Examination Report (Form PCT/IPEA/416)
International application No. PCT/FR2003/001219	International filing date (day/month/) 16 avril 2003 (16.04.2003	·
International Patent Classification (IPC) or n C03C 17/34	national classification and IPC	
Applicant	-SAINT-GOBAIN GLASS FRA	ANCE
and is transmitted to the applicant at 2. This REPORT consists of a total of This report is also accompan amended and are the basis fo 70.16 and Section 607 of the	ccording to Article 36. 4 sheets, including this ied by ANNEXES, i.e., sheets of the de	escription, claims and/or drawings which have been rectifications made before this Authority (see Rule
IV Lack of unity of inv V Reasoned statement citations and explan VI Certain documents VII Certain defects in the	of opinion with regard to novelty, invevention t under Article 35(2) with regard to novertions and supporting such statement	ntive step and industrial applicability velty, inventive step or industrial applicability;
Date of submission of the demand	Date of comp	oletion of this report
02 septembre 2003 (02.0	09.2003)	17 August 2004 (17.08.2004)
Name and mailing address of the IPEA/EP	Authorized o	fficer
Facsimile No.	Telephone N	0.



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International application No.

PCT/FR2003/001219

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v. 	citations and explanations supporting	ng such statement	o novelty, inventive step or industrial applicability;	_
1.	Statement			
	Novelty (N)	Claims	2, 3, 6-15, 17, 18, 20-24, 26	YE:
		Claims	1, 4, 5, 16, 19, 25	_ NO
	Inventive step (IS)	Claims	2, 3, 6-15, 17, 18, 20-24, 26	YE
		Claims	1, 4, 5, 16, 19, 25	_ NO
Industrial applicability (IA)	Claims	1-26	YE	
		Claims		NO

Citations and explanations

1. Documents

Reference is made to the following documents:

- D1: EP-A-1 132 133 (NANOPOUDRES TECHNOLOGIES) 12 September 2001 (2001-09-12)
- D2: EP-A-0 882 686 (NIPPON SHEET GLASS CO LTD) 9
 December 1998 (1998-12-09)
- D3: WO 00 75087 A (HURST SIMON JAMES; PILKINGTON PLC (GB); AMMERLAAN JOHANNES ANDREAS) 14 December 2000 (2000-12-14)
- D4: US 2001/030808 A1 (KOMATSU TORU ET AL) 18
 October 2001 (2001-10-18)
- D5: WO 01 32578 A (SAINT-GOBAIN GLASS FRANCE;

 DURANDEAU ANNE (FR); SIMONET MICHEL (FR) 10 May

 2001 (2001-05-10)

2. Subject matter of the application

Claims 1 to 23 define a substrate having, for example, a glass, polymer or ceramic coating in, for example, sheet or fibre form, provided with a first silicon-compound-based (oxide, oxycarbide, oxynitride, oxycarbonitride) hydrophilic layer and a second titanium oxide photocatalytic coating, said second coating having a discontinuous/permeable structure. Claims 24 to 26 define

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the use of such a coated substrate.

3. Novelty and inventive step

D1 (see paragraph [0029], claims) describes a fibrous fabric, coated with a first layer of silicon nanoparticles and a second mesoporous photocatalytic layer.

Consequently, D1 describes all the features of claims 1, 4, 5, 16, 19 and 25.

The subject matter of claims 1, 4, 5, 16, 19 and 25 is therefore not novel.

D1 does not deprive the subject matter of claims 2, 3, 6 to 15, 17, 18, 20 to 24 and 26 of novelty and inventive step.

D2 to D5 are not prejudicial to the novelty and inventive step of the subject matter of the claims.